

INTERNATIONAL SEARCH REPORT

International Application No
PC 1 / GB2004/004650

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/445 A61K31/4535 A61K31/4525 A61K31/4545 C07D211/32
C07D409/06 C07D405/06 C07D401/06 C07D417/06 A61P3/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C07D A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2004/089470 A2 (NOVO NORDISK A/S; ANDERSEN, HENRIK, SUNE; KAMPEN, GITA, CAMILLA, TEJLG) 21 October 2004 (2004-10-21) claims 1, 15 page 176, line 23 page 179, line 5 page 181, line 4	1-12, 27-31
P, A	WO 2004/033427 A1 (ASTRAZENECA AB; ASTRAZENECA UK LIMITED; BARTON, PETER, JOHN; JEWSBURY,) 22 April 2004 (2004-04-22) claims	1-31

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

1 February 2005

Date of mailing of the international search report

17/02/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/072197 A1 (PFIZER PRODUCTS INC; PERRY, DAVID, AUSTEN; HARWOOD, HAROLD, JAMES, JR) 4 September 2003 (2003-09-04) page 1, line 1 - line 6 examples	1-12, 27-31
X	ORJALES, AURELIO ET AL: "Syntheses and Binding Studies of New '(Aryl)(aryloxy)methylpiperidine Derivatives and Related Compounds as Potential Antidepressant Drugs with High Affinity for Serotonin (5-HT) and Norepinephrine (NE) Transporters" JOURNAL OF MEDICINAL CHEMISTRY , 46(25), 5512-5532 CODEN: JMCMAR; ISSN: 0022-2623, 1 November 2003 (2003-11-01), XP002315824 page 5523, column 2, line 4 - line 5	13-22
X	PATEL, HARSHADKUMAR ET AL: "Mechanism and stereochemistry of formation and cleavage of epoxy ethers. III" JOURNAL OF ORGANIC CHEMISTRY , 30(12), 4337-8 CODEN: JOCEAH; ISSN: 0022-3263, 1965, XP002315825 page 4438, column 1; compound VII	13-22
A	EP 0 378 207 A (TAKEDA CHEMICAL INDUSTRIES, LTD) 18 July 1990 (1990-07-18) page 18, line 14 example 37	13
A	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; LYLE, ROBERT E. ET AL: "The synthesis of potential medicinal agents from 1-methyl-3-bromo-3-piperidyl phenyl ketone" XP002315826 retrieved from STN Database accession no. 1961:112121 compound with RN 2637-77-6 abstract & JOURNAL OF MEDICINAL & PHARMACEUTICAL CHEMISTRY , 3, 597-610 CODEN: JMPCAS; ISSN: 0095-9065, 1961,	13
A	WO 01/21577 A2 (TAKEDA CHEMICAL INDUSTRIES, LTD; KATO, KANEYOSHI; TERAUCHI, JUN; MORI,) 29 March 2001 (2001-03-29) page 138; example 76 page 139, line 13 - line 14 page 140; example 77	13

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; "Piperidines" XP002315827 retrieved from STN Database accession no. 1986:207174 compounds with RN 101387-90-0, 101387-91-1 abstract & JP 60 226877 A2 (FUJISAWA PHARMACEUTICAL CO., LTD., JAPAN) 12 November 1985 (1985-11-12)</p>	13
A	<p>WO 03/065983 A2 (MERCK & CO., INC; BALKOVEC, JAMES, M; THIERINGER, ROLF; MUNDT, STEVEN,) 14 August 2003 (2003-08-14) claims</p>	1-31

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ational application No.
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 31 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004089470 A2	21-10-2004	WO 2004089415 A2 WO 2004089896 A1 WO 2004089416 A2	21-10-2004 21-10-2004 21-10-2004
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WO 03065983 A2	14-08-2003	AU 2003207717 A1 CA 2474168 A1 EP 1474139 A2	02-09-2003 14-08-2003 10-11-2004